

102.16 - Titanium Base Alloys (chip and disk forms)

PLEASE NOTE: The tables are presented to facilitate comparisons among a family of materials to help customers select the best SRM for their needs. For specific values and uncertainties, the certificate is the only official source.

SRM	173c	641	643	647	648	649	654b	1128
Description	Titanium Alloy UNS R56400 (chip form)	Spectroscopic Titanium-Base Standards Titanium Alloy, 8 Mn (A)	Spectroscopic Titanium-Base Standards Titanium Alloy, 8 Mn (C)	Titanium Alloy, Al-Mo-Sn-Zr	Titanium-Base Alloy 5Al-2Sn-2Zr-4Cr-4Mo	Titanium-Base Alloy (15V-3Al-3Cr-3Sn)	Titanium Alloy, Al-V	Titanium -Base Alloy (15V-3Al-3Cr-3Sn)
Unit of Issue	(50 g)	(disk)	(disk)	(50 g)	(50 g)	(50 g)	(disk)	(disk)

Concentration are expressed as mass fraction, in % (unless noted by an asterisk * for mg/kg).

Aluminum (Al)	6.245		5.88	5.13	3.08	6.34	3.06
Boron (B)	0.45*					1.12*	
Carbon (C)	0.027		0.006	0.011	0.011		0.011
Chromium (Cr)	0.0165			3.84	2.96	0.025	2.96
Cobalt (Co)	(0.002)						
Copper (Cu)	0.0040				(<0.001)	80*	(<0.003)
Hydrogen (H)	(0.006)					(0.002)	
Iron (Fe)	0.2130		0.075	0.15	0.133	0.23	0.134
Manganese (Mn)	(0.002)	6.68	11.68		(<0.01)		(<0.01)
Molybdenum (Mo)	0.0068		1.96	3.75		0.013	(0.006)
Nickel (Ni)	0.0203					0.028	
Niobium (Nb)							
Nitrogen (N)	0.028		(<0.01)	(0.01)	(0.01)		(0.01)
Oxygen (O)	0.164					(0.17)	
Ruthenium (Ru)	(0.0006)						
Silicon (Si)	0.019			0.027		0.045	
Sulfur (S)						(0.001)	
Tin (Sn)	0.010		2.02	1.98	3.04	230*	3.04
Titanium (Ti)	89.15						
Tungsten (W)	(0.002)						
Vanadium (V)	4.154		(<0.02)		15.1	4.31	15.13
Zirconium (Zr)	0.0053		3.90	1.84		0.008	

- Certified values are normal font
- Reference values are italicized

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2061

2431

TiAl(NbW)
Alloy for
Microanalysis

Titanium
Base
Alloy

(cube) (50 g)

30.31 5.73

0.006
(<0.01)

(<0.01)

0.056
(<0.01)

6.01

(<0.01)

10.78

(0.004)
(0.232)

0.088

1.98

53.92

4.38 (<0.001)
(<0.01)

4.06

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SRM	2432	2433	2452	2453a	2454a
Description	Titanium-Base Alloy 10V - 2Fe - 3Al	Titanium-Base Alloy 8Al-1Mo-1V	Hydrogen In Titanium Alloy (Nominal Mass Fraction 60 mg/kg H) (chip form)	Hydrogen In Titanium Alloy (Nominal Mass Fraction 125 mg/kg H)	Hydrogen in Titanium Alloy (Nominal Mass Fraction 215 mg/kg H)(pin form)
Unit of Issue	(50 g)	(50 g)	(10 g)	(10 g)	(10 g)

Concentration are expressed as mass fraction, in % (unless noted by an asterisk * for mg/kg).

Aluminum (Al)	3.15	7.63		
Boron (B)	(<0.001)			
Carbon (C)	0.008			
Chromium (Cr)	(<0.01)			
Cobalt (Co)				
Copper (Cu)	(<0.005)			
Hydrogen (H)		0.00559	0.01268	0.02160
Iron (Fe)	1.77	0.063		
Manganese (Mn)	(<0.01)			
Molybdenum (Mo)		0.99		
Nickel (Ni)	(<0.01)			
Niobium (Nb)				
Nitrogen (N)				
Oxygen (O)				
Ruthenium (Ru)				
Silicon (Si)	0.029			
Sulfur (S)				
Tin (Sn)				
Titanium (Ti)				
Tungsten (W)	(<0.001)			
Vanadium (V)	10.00	0.98		
Zirconium (Zr)	(<0.01)			

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